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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLICATION NO.		TIEING DATE	TROT NAMED IN VENTOR	ATTORNET BOOKET NO.	CONTIGUITATION NO.	
10/664,573		09/17/2003	Robert Schlemmer	11836.0737.NPUS02 (MIDR73	4592	
26722	759	0 08/02/2005		EXAM	EXAMINER	
OSHA L			SUCHFIELD	SUCHFIELD, GEORGE A		
SUITE 2		N CENTER	ART UNIT	PAPER NUMBER		
HOUSTO	HOUSTON, TX 77010			3676	3676	
				DATE MAILED: 08/02/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applica	tion No.	Applicant(s)	—9		
Offi	na Aatian Summanu	10/664		SCHLEMMER, ROBERT			
Onic	ce Action Summary	Examin	er	Art Unit			
			Suchfield	3676			
The MA Period for Reply	AILING DATE of this commu	nication appears on t	he cover sheet with the	correspondence address			
THE MAILING - Extensions of time after SIX (6) MON - If the period for re - If NO period for re - Failure to reply we hany reply receive	ED STATUTORY PERIOD IS DATE OF THIS COMMUN or may be available under the provision ATHS from the mailing date of this come ply specified above is less than thirty (sply is specified above, the maximum sithin the set or extended period for reply by the Office later than three months madjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no munication. 30) days, a reply within the statutory period will apply and y will, by statute, cause the a	event, however, may a reply be tilt tatutory minimum of thirty (30) dar will expire SIX (6) MONTHS fron polication to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status		•					
1)⊠ Respons	sive to communication(s) fil	ed on <u>20 February 2</u>	<u>2004</u> .				
2a) ☐ This act		2b)⊠ This action is					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of CI	aims				•		
4) Claim(s)	1-11 is/are pending in the	application.					
•	ie above claim(s) <u>1-8</u> is/are	• •	sideration.				
5) Claim(s)	is/are allowed.						
6)⊠ Claim(s)	9-11 is/are rejected.						
7) Claim(s)	is/are objected to.			•			
8) Claim(s)) <u>1-11</u> are subject to restrict	ion and/or election r	equirement.	•	,		
Application Pape	ers						
9)⊠ The spec	cification is objected to by t	ne Examiner.					
10)☐ The draw	ving(s) filed on is/are	e: a) accepted or	b) objected to by the	Examiner.			
	t may not request that any obj						
Replace	ment drawing sheet(s) includin	g the correction is requ	uired if the drawing(s) is of	bjected to. See 37 CFR 1.121(d)	•		
11)∐ The oath	or declaration is objected	to by the Examiner.	Note the attached Office	e Action or form PTO-152.			
Priority under 35	U.S.C. § 119						
•	edgment is made of a clain	for foreign priority (ınder 35 U.S.C. § 119(a	a)-(d) or (f).			
·))☐ Some * c)☐ None of:						
	ertified copies of the priority						
<u> </u>	ertified copies of the priority		•				
	opies of the certified copies	• •		ed in this National Stage			
	pplication from the Internati	•	1 11	•			
* See the a	ittached detailed Office acti	on for a list of the ce	rtified copies not receiv	ed.			
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Attachment(s)							
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2) Natice of Drafts	p eson s P atent o ra v in, R e ie v (P a p er N Q s)/M a ic	ate			
3) 🔯 I rionason dis P aper n Q s)/Ma	co.ue Statement (s) (PT O 1449 0 ai D ate 2/20/04.	7 PT OS 8/08)	5) N ataea I ntoma 6) Oher	P atent A ppl ication (PT O 152)			
Spatetan name (-4.4			
PT Q -326 (R & . 1-04)		Office Action Sum	mary P	atofpapernovmaidate07282005	5		

Application/Control Number: 10/664,573

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1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-7, drawn to a drilling fluid composition and method of preparing, classified in class 507, subclass 110.

II. Claims 8-10, drawn to a method of drilling a well and increasing shale formation stability, classified in class 175, subclass 64.

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The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the composition or product provided by the Group I invention could be useful in a soil remediation or consolidation process. Also, composition appears to possess utility as a thickener in a coating or plastic formulation.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 5. During a telephone conversation with Jeff Bergman on July 27, 2005 a provisional election was made without traverse to prosecute the invention of Group II, claims 8-10.

 Affirmation of this election must be made by applicant in replying to this Office action. Claims

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1-7 stand withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

6. The disclosure is objected to because of the following informalities:

In the chemical formula(s) recited in page 7 of the specification, lines 1-16, it is not clear what the symbol "X" represents

Appropriate correction is required.

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claims 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by the document WO 99/31353.

In one of the WO'99 embodiments (note page 3, line 25 - page 4, line 27; page 8, lines 5-13), subterranean formation clay or shale minerals, which may be encountered during the drilling process, are stabilized by the injection or circulation of a fluid which comprises a mixture of reactants, one of which may comprise a carbonyl compound, such as an aldehyde or ketone, while the other reactant may comprise an amine compound, such as a diamine. The respective reactants effect a condensation polymerization reaction which forms a condensation polymer which effects clay and/or shale stabilization.

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Insofar as WO'99 treats a formation containing clay or shale minerals in the same manner as per applicant's claims 7-9, i.e., utilizing a similar composition with similar or corresponding reactants which inter-react in the same manner, it is deemed that such drilling/treatment process will inherently form an osmotic membrane and/or "semi-soluble or precipitated filming product", as recited.

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Other references cited disclose process for drilling a well and/or effecting stabilization of shale or clay formations including the formation of an osmotic or semi-permeable membrane on the penetrated formation(s).

It is noted that Covency et al (6,787,507) also stabilizes a shale or clay containing formation through the formation of a condensation polymer in the borehole or formation utilizing respective amine and carbonyl compound reactants, and is thus deemed cumulative to the WO 99/31353 document, applied above against one or more of the claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Suchfield whose telephone number is 571-272-7036. The examiner can normally be reached on M-F (6:30 - 3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on 571-272-6843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George Suchfield Primary Examiner Art Unit 3676

Gs 7/29/05